

IN THE CLAIMS

Please amend the claims as follows:

Claims 1-22 (Canceled).

Claim 23 (Currently Amended): A device for receiving signals in a wireless cellular orthogonal frequency division multiplex (OFDM) system, in which data symbols are transmitted in frequency subcarriers and timeslots, comprising:

a channel estimator configured to perform a channel estimation on the basis of received pilot symbols, the channel estimator including a filter selector configured to adaptively select a filter for channel estimation from a plurality of available filters based on an interference reference value supplied to the filter selector; and

a filter configured to perform a channel estimation for data symbols between pilot symbols, said filter being further adaptively selected from ~~a set~~ the plurality of available filters on the basis of ~~an interference reference value and~~ a Doppler frequency of the data symbol to be channel estimated, said channel estimation being based on an estimated carrier to interference value ratio, said estimated carrier being a wanted carrier power value at a frequency subcarrier and a timeslot of a data symbol to be channel estimated.

Claim 24 (Currently Amended): The device according to Claim 23, wherein the filter selector is further configured to adaptively select the filter further comprising: means for selecting said filter based on the estimated carrier to interference ratio at the frequency subcarrier and the timeslot of the data symbol to be channel estimated.

Claim 25 (Previously Presented): The device according to Claim 24, wherein, if said filter to be selected is to be a frequency filter, said means for selecting selects said filter based

on a difference vector between frequency subcarriers adjacent to the frequency subcarrier of the data symbol to be channel estimated.

Claim 26 (Previously Presented): The device according to Claim 24, wherein, if said filter to be selected is to be a time filter, said means for selecting selects said filter based on a Doppler frequency of the estimated channel.

Claim 27 (Currently Amended): A method for channel estimation in a wireless cellular orthogonal frequency division multiplex (OFDM) system, in which data symbols are transmitted in frequency subcarriers and timeslots, comprising:

performing a channel estimation on the basis of received pilot symbols;
performing, adaptively, a filter selection for channel estimation by a filter selector, the filter selector selecting from a plurality of available filters based on an interference reference value supplied to the filter selector; and

performing, by a filter, a channel estimation for data symbols between pilot symbols, said filter being further adaptively selected from the plurality a-set of available filters based on the basis of an interference reference value and a Doppler frequency of the data symbol to be channel estimated, said channel estimation being based on an estimated carrier to interference value ratio, the estimated carrier being a wanted carrier power value at a frequency subcarrier and a timeslot of a data symbol to be channel estimated.

Claim 28 (Currently Amended): The method according to Claim 27, wherein said performing, adaptively, a filter selection may be further performed further comprising:
selecting the filter based on the estimated carrier to interference ratio at the frequency subcarrier and the timeslot of the data symbol to be channel estimated.

Claim 29 (Previously Presented): The method according to Claim 28, wherein, if said filter to be selected is a frequency filter, said filter is further selected on the basis of a difference vector between frequency subcarriers adjacent to the frequency subcarrier of the data symbol to be channel estimated.

Claim 30 (Previously Presented): The method according to Claim 28, wherein, if said filter to be selected is to be a time filter, said filter is further selected on the basis of a Doppler frequency of the estimated channel.

Claim 31 (Previously Presented): The method according to Claim 27, wherein said filter is selected from among a set of filters based on the estimated carrier to interference ratio and a difference vector between frequency subcarriers adjacent to the frequency subcarrier of the data symbol to be channel estimated.

Claim 32 (Canceled).

Claim 33 (Previously Presented): The device according to Claim 24, wherein said filter is selected from among a set of filters based on the estimated carrier to interference ratio and a difference vector between frequency subcarriers adjacent to the frequency subcarrier of the data symbol to be channel estimated.

Claim 34 (Canceled).